-65°C to +200°C

+175°C

+260°C

500 mW

125 V

200 mA

500 mA

600 mA

1.0 A

4.0 A

3.33 mW/°C



FDH300/FDLL300 FDH333/FDLL333

T-01-09

High Conductance Low Leakage Diodes

• BV...150 V (MIN) @ 100 µA • IR...1.0 nA (MAX) @ 125 V (FDH300), 3.0 nA (MAX) @ 125 V (FDH333)

ABSOLUTE MAXIMUM RATINGS (Note 1)

Storage Temperature Range Maximum Junction Operating Temperature

Lead Temperature

Power Dissipation (Note 2) Maximum Total Dissipation at 25°C Ambient Linear Derating Factor (from 25°C)

Maximum Voltages and Currents WIV Working Inverse Voltage

Average Rectified Current ю Forward Current Steady State IF Recurrent Peak Forward Current if(surge) Peak Forward Surge Current Pulse Width = 1.0 s

Pulse Width = $1.0 \mu s$

PACKAGES

FDH300 DO-35 FDH333 DO-35 FDLL300 LL-34 FDLL333 LL-34

If you need this device in the SOT package, an electical equivalent is available. See FDSO1500 family.

ELECTRICAL CHARACTERISTICS (25°C Ambient To

SYMBOL	CHARACTERISTIC	FDH300		FDH333			
		MIN	MAX	MIN	MAX	UNITS	TEST CONDITIONS
VF	Forward Voltage			0.9	1.15	V	IF = 300 mA
	•			0.88	1.08	V	IF = 250 mA
			1.0	0.87	1.05	V	IF = 200 mA
		I		0.86	0.97	V	IF = 150 mA
			0.92	0.83	0.94	V	IF = 100 mA
		-	0.88	0.80	0.89	V	IF = 50 mA
	•		0.8			V	IF = 10 mA
			0.75			V	IF = 5.0 mA
			0.68			V	IF = 1.0 mA
I _R	Reverse Current		1.0		3.0	nA	V _R = 125 V
		1	3.0	-		μΑ	VR = 125 V, TA = 150°C
					500	nA	VR = 125 V, TA = 100°C
С	Capacitance		6.0		6.0	ρF	V _R = 0, f = 1MHz
BV	Breakdown Voltage	150		150		V	i _R = 100 μA

NOTES:

1. The maximum ratings are limiting values above which life or satisfactory performance may be impaired.

2. These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

3. For family characteristic curves, refer to Chapter 4, D2.